AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A multilayer semiconductor device assembly jig for ~~minimizing the displacement of~~ securing a plurality of semiconductor modules disposed within the assembly jig ~~during a manufacturing process~~, comprising:

a lateral position restriction structure ~~mechanism~~ for maintaining alignment of ~~positioning and aligning~~ a plurality of stacked semiconductor modules ~~on a solid base member~~ with their respective lateral positions mutually restricted, the lateral position restriction structure ~~mechanism~~ formed at a width slightly more than but substantially equal to a width of a rigid portion of said plurality of semiconductor modules so as to rigidly restrict displacement ~~the deformation~~ of said semiconductor modules;

a removable height restriction mechanism disposed opposite said base member and which interfaces with said lateral position restriction structure ~~mechanism~~ for restricting an entire height of said semiconductor modules layered on said base member ~~and which is removed prior to mounting the jig onto a mother substrate~~;

the jig having a mother substrate alignment structure for securing the mother substrate to the jig ~~mechanism for providing alignment with reference to the mother substrate on which the jig will be mounted~~; and

further wherein each of the plurality of semiconductor modules secured within the jig is comprised of one or more semiconductor chips secured to a printed wiring board that has

electrical connections on a top and bottom surface thereof and wherein adjacent semiconductor modules are secured to one another by solder connections between respective top and bottom surfaces thereof.

2. (Currently Amended) The multilayer semiconductor device assembly jig according to claim 1, wherein said lateral position restriction structure ~~mechanism~~ comprises a substantially rectangular-shaped ~~member~~ structure comprising ~~formed from~~ two pairs of opposing side walls and which is positioned on said base member and which has a storage space for storing said semiconductor modules in a layered state,

wherein an inner wall surface of said storage space constitutes said lateral position restriction structure ~~mechanism~~.

3. (Previously Presented) The multilayer semiconductor device assembly jig according to claim 2, wherein said alignment mechanism comprises a plurality of positioning pins and positioning holes for receiving the positioning pins which are correspondingly formed in said rectangular-shaped member and said mother substrate.

4. (Previously Presented) The multilayer semiconductor device assembly jig according to claim 1, wherein said position restriction mechanism further comprises a plurality of positioning pins secured in said base member and which are used for securing at least three different portions of an outer periphery of said semiconductor modules and at least two opposing sides of said semiconductor modules.

5. (Previously Presented) The multilayer semiconductor device assembly jig according to claim 1, wherein said position restriction mechanism further comprises a plurality of positioning pins secured in said base member and which pierce through positioning holes formed in said semiconductor modules.

6. (Previously Presented) The multilayer semiconductor device assembly jig according to claim 5, wherein said positioning pins are aligned in a manner so as to also pierce through a positioning hole formed in said mother substrate when the jig is mounted on the mother substrate.

7. (Currently Amended) The multilayer semiconductor device assembly jig according to claim 1, wherein said height restriction mechanism comprises:

a cover member secured over or on said lateral position restriction structure ~~mechanism~~.

Claims 8. - 10. (Canceled)

11. (Currently Amended) A multilayer semiconductor device assembly jig for ~~minimizing the displacement of~~ securing a plurality of semiconductor modules disposed within the assembly jig ~~during a manufacturing process~~, comprising:

a lateral position restriction structure ~~mechanism~~ for maintaining alignment of ~~positioning and aligning~~ a plurality of stacked semiconductor modules ~~on a solid base member~~ with their respective lateral positions mutually restricted, the lateral position restriction structure ~~mechanism~~ comprised of at least two opposed side walls having a single stack of the semiconductor modules therebetween, the sidewalls being formed at a width slightly more than but substantially equal to a width of a rigid portion of said plurality of semiconductor modules so as to rigidly restrict displacement ~~the deformation~~ of said semiconductor modules;

a removable height restriction mechanism disposed opposite said base member and which interfaces with said lateral position restriction structure ~~mechanism~~ for restricting an entire height of said semiconductor modules layered on said base member~~, wherein said height restriction mechanism is removed prior to mounting the jig on a mother substrate~~;

a mother substrate alignment structure ~~mechanism~~ secured to the jig ~~for providing alignment with reference to the mother substrate on which the jig will be mounted~~;

and further wherein each of the plurality of semiconductor modules secured within the jig is comprised of one or more semiconductor chips secured to a printed wiring board that has electrical connections on a top and bottom surface thereof and wherein adjacent semiconductor modules are secured to one another by solder connections between respective top and bottom surfaces thereof.

12. (Previously Presented) The multilayer semiconductor device assembly jig of claim 11, wherein the alignment mechanism is comprised of a plurality of vertical pins secured in said base member.

13. (Previously Presented) The multilayer semiconductor device assembly jig of claim 11, wherein the alignment mechanism is further comprised of a plurality of vertical pins that pierce through the stacked semiconductor modules.

14. (Currently Amended) An assembly jig for ~~minimizing the displacement of~~ securing a plurality of semiconductor modules disposed within the assembly jig ~~during a manufacturing process~~ comprising:

two pairs of substantially parallel opposed side walls secured to ~~formed on~~ a solid base member, the sidewalls being formed at a width slightly more than but substantially equal to a width of a rigid portion of said plurality of semiconductor modules so as to rigidly restrict displacement ~~the deformation of~~ said semiconductor modules;

a removable cover member located opposite said base member and which interfaces with the side walls;

an internal void defined by said two pairs of opposed side walls providing a reception area for a plurality of semiconductor modules such that~~, when disposed within the void, the~~ modules disposed within the void are aligned and their lateral motion is prevented by the side walls, and wherein the semiconductor modules are comprised of at least one chip and one wiring board;

and further wherein the removable cover member is positioned such that it prevents vertical displacement of an uppermost semiconductor module.

15. (Previously Presented) The assembly jig of claim 15, further comprising mother substrate alignment pins that extend through portions of the cover member and the side walls.

Claims 16. – 19. (Canceled)

20. (Currently Amended) The multilayer semiconductor device assembly jig according to claim 1, wherein said mother substrate alignment structure ~~mechanism~~ is formed in said lateral position restriction mechanism as a hole that receives a pin member.

Claim 21. (Canceled)